

ATTORNEY DOCKET NO.
062891.0471

PATENT APPLICATION
Serial No. 09/751,627

IN THE CLAIMS

For the convenience of the Examiner, all pending claims of the present Application are reproduced below.

1. **(Currently Amended)** A Voice over Internet Protocol (VoIP) telephony device for controlling the delivery of streaming media, comprising:

a communication network interface operable to receive streaming media from a network device external to the VoIP telephony device, the streaming media comprising a voice message received by the communication network interface at a first delivery rate;

a memory coupled to the communication network interface, the memory operable to store media received through the communication network interface; and

a media rate controller coupled to the memory and the communication network interface, the controller operable to determine an adjustment to the first delivery rate and generate a command for transmission to the external network device, the command requesting a subsequent transmission of streaming media from the external network device to the VoIP telephony device to be delivered at an adjusted delivery rate based upon the adjustment to the first delivery rate.

2. **(Original)** The device of Claim 1, wherein the communication network interface is an Ethernet card.

3. **(Original)** The device of Claim 1, wherein the streaming media comprises voice over Internet protocol packets.

4. **(Original)** The device of Claim 1, wherein the media rate controller is further operable to generate a command to reserve an amount of bandwidth in the communication network that is compatible with the adjusted delivery rate.

5. **(Original)** The device of Claim 1, wherein the adjustment to the first delivery rate specifies a new rate for the delivery of the streaming media.

ATTORNEY DOCKET NO.
062891.0471

PATENT APPLICATION
Serial No. 09/751,627

3

6. (Original) The device of Claim 1, wherein the media rate controller is further operable to determine whether to adjust the first delivery rate based on the status of the media in the memory.

7. (Original) The device of Claim 6, wherein the media rate controller generates a command for an increase in the first delivery rate when the amount of media in the memory is below a threshold.

8. (Original) The device of Claim 6, wherein the media rate controller generates a command for a decrease in the first delivery rate when the amount of media in the memory is above a threshold.

9. (Original) The device of Claim 1, further comprising:
an output device interface coupled to the memory, the output device interface operable to receive the media and transform it into signals appropriate for output; and
an output device coupled to the output device interface, the output device operable to receive the signals from the output device interface and generate output based on them.

10. (Original) The device of Claim 9, further comprising an input device coupled to the media rate controller, the input device operable to detect a command to adjust the rate at which the media is being output by the output device, wherein the media rate controller is further operable to, based on the command, generate a command to adjust the rate at which the media is currently being delivered.

11. (Original) The device of Claim 10, wherein the input device comprises one of a button, a speech recognition device, a graphical user interface, and a mouse.

12. (Original) The device of Claim 9, wherein the output device comprises one of a speaker and a video terminal.

DAL01:895037.1

ATTORNEY DOCKET NO.
062891.0471

PATENT APPLICATION
Serial No. 09/751,627

4

13. **(Original)** The device of Claim 1, wherein the media rate controller is operable to determine whether the first delivery rate may be adjusted and to operate at only the first delivery rate if the first delivery rate may not be adjusted.

14. **(Currently Amended)** A Voice over Internet Protocol (VoIP) telephony device for controlling the delivery of streaming media, comprising:

a network interface card operable to receive audio media from a network device external to the VoIP telephony device at different delivery rates;

a random access memory coupled to the network interface card, the memory containing a buffer operable to store audio media received through the network interface card;

a digital signal processor coupled to the memory, the digital signal processor operable to process the media in the buffer based on the rate at which output is being generated based on the media;

a media rate controller coupled to the memory, the controller operable to monitor the status of the audio media in the buffer, to determine an adjustment to the current rate at which the audio media is being delivered based on the status of the audio media in the buffer, and to generate a command for transmission to the external network device, the command requesting a subsequent transmission of streaming media from the external network device to the VoIP telephony device to be delivered at an adjusted delivery rate based upon the adjustment to the first delivery rate;

a coder/decoder coupled to the memory, the coder/decoder operable to convert the processed audio media into analog signals representative of audible sounds; and

a speaker coupled to the coder/decoder, the speaker operable to receive the analog signals and generate audible sounds based on them.

DAL01:895037.1

ATTORNEY DOCKET NO.
062891.0471

PATENT APPLICATION
Serial No. 09/751,627

5

15. **(Currently Amended)** A method for controlling the delivery of streaming media at a Voice over Internet Protocol (VoIP) telephony device, comprising:

receiving streaming media at a VoIP telephony device at a first delivery rate, the streaming media received from a network device external to the VoIP telephony device;

storing the received media;

determining whether to adjust the first delivery rate;

using a media rate controller to determine determining an adjustment to the first delivery rate if an adjustment is desired; and

using the media rate controller to generate generating a command for transmission to the external network device, the command requesting a subsequent transmission of streaming media from the external network device to the VoIP telephony device to be delivered at an adjusted delivery rate based upon the adjustment to the first delivery rate.

16. **(Original)** The method of Claim 15, wherein the media comprises voice over Internet protocol packets.

17. **(Original)** The method of Claim 15, further comprising generating a command to reserve an amount of bandwidth in a communication network that is compatible with the adjusted delivery rate.

18. **(Original)** The method of Claim 15, further comprising examining the status of the media being stored to determine whether to adjust the first delivery rate.

19. **(Original)** The method of Claim 18, wherein the adjusted delivery rate is greater than the first delivery rate if the amount of media being stored is below a threshold.

20. **(Original)** The method of Claim 18, wherein the adjusted delivery rate is less than the first delivery rate if the amount of media being stored is above a threshold.

DAL01:895037.1

ATTORNEY DOCKET NO.
062891.0471

PATENT APPLICATION
Serial No. 09/751,627

6

21. (Original) The method of Claim 15, further comprising:
converting the received media into a form appropriate for output; and
generating output based on the converted media.

22. (Original) The method of Claim 21, wherein the output comprises one of
audible sound and video graphics.

23. (Original) The method of Claim 21, further comprising:
detecting a command to adjust the rate at which output is being generated based on
the media;
determining an adjustment to the rate at which media is currently being delivered
based on the command; and
generating a command for the network device to adjust the current delivery rate in
accordance with the adjustment.

24. (Currently Amended) A set of logic encoded in media for controlling the
delivery of streaming media, the logic operable to perform the following operations:

detect the reception of streaming media received from a network device external to a
Voice over Internet Protocol (VoIP) telephony device, the streaming media received at a first
delivery rate;

instruct a memory to store the received media;
determine whether to adjust the first delivery rate;
using a media rate controller to determine an adjustment to the first delivery rate if
an adjustment is desired; and
using the media rate controller to generate a command for transmission to the
external network device, the command requesting a subsequent transmission of streaming
media from the external network device to the VoIP telephony device to be delivered at an
adjusted delivery rate based upon the adjustment to the first delivery rate.

25. (Original) The logic of Claim 24, wherein the media comprises voice over
Internet protocol packets.

DAL01:895037.1

ATTORNEY DOCKET NO.
062891.0471

PATENT APPLICATION
Serial No. 09/751,627

26. (Original) The logic of Claim 24, wherein the media represents audible sounds.

27. (Original) The logic of Claim 24, wherein the logic is further operable to generate a command to reserve an amount of bandwidth in a communication network that is compatible with the adjusted delivery rate.

28. (Original) The logic of Claim 24, wherein the logic is further operable to examine the status of the media being stored to determine whether to adjust the first delivery rate.

29. (Original) The logic of Claim 28, wherein the adjusted delivery rate is greater than the first delivery rate if the amount of media being stored is below a threshold.

30. (Original) The logic of Claim 28, wherein the adjusted delivery rate is less than the first delivery rate if the amount of media being stored is above a threshold.

31. (Original) The logic of Claim 24, wherein the logic is further operable to: convert the received media into a form appropriate for output; and facilitate the generation of output based on the converted media.

32. (Original) The logic of Claim 31, wherein the output comprises audible sound or video graphics.

ATTORNEY DOCKET NO.
062891.0471

PATENT APPLICATION
Serial No. 09/751,627

33. **(Original)** The logic of Claim 24, wherein the logic is further operable to:
detect a command to adjust the rate at which output is being generated based on the media;
determine, based on the command, an adjustment to the rate at which media is currently being delivered; and
generate a command for the network device to adjust the current delivery rate in accordance with the adjustment.

34. **(Original)** The logic of Claim 24, wherein the logic is embedded in software.

35. **(Currently Amended)** A Voice over Internet Protocol (VoIP) telephony device for controlling the delivery of streaming media, comprising:
means for receiving streaming media at ~~an endpoint device~~ a VoIP telephony device at a first delivery rate, the streaming media received from a network device external to the VoIP telephony device;
means for storing the received media;
means for determining, at the VoIP telephony device, whether to adjust the first delivery rate and an adjustment to the first delivery rate if an adjustment is desired; and
means for generating, at the VoIP telephony device, a command for transmission to the external network device, the command requesting a subsequent transmission of streaming media from the external network device to the VoIP telephony device to be delivered at an adjusted delivery rate based upon the adjustment to the first delivery rate.

36. **(Original)** The device of Claim 35, wherein the media comprises voice over Internet protocol packets.

37. **(Original)** The device of Claim 35, further comprising means for generating a command to reserve an amount of bandwidth in a communication network that is compatible with the adjusted delivery rate.

ATTORNEY DOCKET NO.
062891.0471

PATENT APPLICATION
Serial No. 09/751,627

9

38. (Original) The device of Claim 35, further comprising means for examining the status of the media being stored to determine whether to adjust the first delivery rate.

39. (Original) The device of Claim 38, wherein the adjusted delivery rate is greater than the first delivery rate if the amount of media being stored is below a threshold.

40. (Original) The device of Claim 38, wherein the adjusted delivery rate is less than the first delivery rate if the amount of media being stored is above a threshold.

41. (Original) The device of Claim 35, further comprising:
means for converting the received media into a form appropriate for output; and
means for generating output based on the converted media.

42. (Original) The device of Claim 41, wherein the output comprises audible sound or video graphics.

43. (Original) The device of Claim 41, further comprising:
means for detecting a command to adjust the rate at which output is being generated based on the media;
means for determining an adjustment to the rate at which media is currently being delivered based on the command; and
means for generating a command for the network device to adjust the current rate in accordance with the adjustment.

DAL01:895037.1

PAGE 10/16 *RCVD AT 2/27/2006 12:03:18 PM [Eastern Standard Time]* SVR:USPTO-EFXRF-5/4 * DNI:2738300 * CSID:2149536503 * DURATION (mm:ss):05-00

ATTORNEY DOCKET NO.
062891.0471

PATENT APPLICATION
Serial No. 09/751,627

10

44. **(Currently Amended)** A system for delivering streaming media, comprising:
a communication network interface external to a Voice over Internet Protocol
(VoIP) telephony device operable to send streaming media to a communication network for
transmission to a Voice over Internet Protocol (VoIP) the VoIP telephony device;
a memory coupled to the communication network interface, the memory including at
least one file containing media; and
a delivery controller coupled to the memory and the communication network
interface, the delivery controller operable to:

receive a command from the VoIP telephony device, the command requesting
the delivery controller to send the media through the communication network interface to the
VoIP telephony device at an adjusted delivery rate,

retrieve the media from the file and format it into packets, and
stream the packets through the communication network interface at a—the
adjusted delivery rate.

45. **(Original)** The system of Claim 44, wherein the communication network
interface is an Ethernet card.

46. **(Original)** The system of Claim 44, wherein the packets comprise voice over
Internet protocol packets.

47. **(Original)** The system of Claim 44, wherein the media represents audible
sounds or video graphics.

48. **(Original)** The system of Claim 44, wherein the delivery controller is further
operable to stream subsequent media in the file through the communication network interface
at an adjusted rate based on a command to adjust the rate.

49. **(Original)** The system of Claim 48, wherein the adjusted rate is less than the
previous rate.

DAL01:895037.1

ATTORNEY DOCKET NO.
062891.0471

PATENT APPLICATION
Serial No. 09/751,627

11

50. (Original) The system of Claim 48, wherein the controller streams subsequent media in the file through the communication network interface at the adjusted rate by adjusting the amount of media in each packet or adjusting the rate at which the packets are sent.

51. (Cancelled)

52. (Cancelled)

53. (Cancelled)

54. (Cancelled)

55. (Cancelled)

56. (Cancelled)

57. (Cancelled)

DAL01:895037.1

PAGE 12/16 * RCVD AT 2/27/2006 12:03:18 PM [Eastern Standard Time] * SVR:USPTO-EFXRF-5/4 * DNIS:2738300 * CSID:2149536503 * DURATION (mm:ss):05-00

ATTORNEY DOCKET NO.
062891.0471

PATENT APPLICATION
Serial No. 09/751,627

12

58. (Currently Amended) A system for delivering electronic media to a Voice over Internet Protocol (VoIP) telephony device, comprising:

a communication network;

a media output device in a VoIP telephony device, the media output device coupled to the communication network, the media output device operable to receive media from the communication network at a first delivery rate and generate output based on the media, the media output device further operable to determine an adjustment to the first delivery rate and generate a command requesting a subsequent transmission of media to be delivered at an adjusted delivery rate based upon the adjustment to the first delivery rate; and

a media delivery system coupled to the communication network and external to the media output device that is in the VoIP telephony device, the media delivery system operable to stream media destined for the media output device to the communication network at the first delivery rate, the media delivery system further operable to receive the command to adjust the first delivery rate and stream the subsequent transmission of media destined for the media output device to the communication network at the adjusted delivery rate.

59. (Original) The system of Claim 58, wherein the media represents audible sounds or video graphics.

60. (Original) The system of Claim 58, wherein the media output device comprises a telephone.

61. (Original) The system of Claim 58, wherein the media output device determines the adjustment to the first delivery rate in response to receiving a command regarding the rate at which output is to be generated based on the media.

62. (Original) The system of Claim 58, wherein the adjustment indicates an increase of the first delivery rate.

DAL01:895037.1

ATTORNEY DOCKET NO.
062891.0471

PATENT APPLICATION
Serial No. 09/751,627

13

63. **(Original)** The system of Claim 58, wherein the media output device generates the command to adjust the rate at which the media is currently being delivered based on the status of the media in a buffer.

64. **(Original)** The system of Claim 58, wherein the media output device is further operable to generate a command to reserve an amount of bandwidth in the communication network that is compatible with the adjusted delivery rate.

65. **(Original)** The system of Claim 58, wherein the media is streamed in the form of voice over Internet protocol packets.

66. **(Original)** The system of Claim 65, wherein the media delivery system adjusts the rate at which packets containing media are being streamed to the communication network to stream subsequent media to the communication network at the adjusted delivery rate.

67. **(Previously Presented)** The system of Claim 1, wherein:
the network device is located at a physically remote location from the communication network interface; and
the communication network interface is further operable to receive the streaming media over a communication network.

68. **(Previously Presented)** The system of Claim 15, further comprising transmitting the command to the network device to change the first delivery rate in accordance with the adjustment.

DAL01:895037.1